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1	SECTION I. WATER QUALITY	
2	Goal	Objective
3	# 1: Improve water quality through treatment or elimination of pollutant discharges regulated under the current federal and state regulatory framework	1.1. Attain water quality goals in TMDLs adopted for 303(d) listed waterbodies in the Santa Monica Bay watershed.
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9		1.2. Eliminate and prevent water and sediment quality impairments fB11:N13
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13		1.3. Eliminate biological impacts of water intake and discharge from coastal power and desalination plants.
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16		1.4. Eliminate all harmful discharges to Areas of Special Biological Significance (ASBS)
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19		1.5. Institute a reliable regional funding mechanism for

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2	Milestone	Target Date	Implementation Lead	Implementation Partners	Role of the SMBNEP	Completion Status
3	1.1a Update existing TMDLs and determine the need for development of TMDLs for the remaining 303(d) listed waterbodies in the Santa Monica Bay watershed.	2023	LARWQCB, USEPA	LA County and watershed cities	Facilitate and support	Ongoing
4	1.1b. Facilitate achievement of TMDL waste load and load allocation targets through implementation of enhanced watershed management plans under the MS4 permit by 2021.	2021	LARWQCB, LA County and watershed cities	Other permitted dischargers	(1). Facilitate and promote; (2). Provide technical support	Ongoing
5	1.1c Achieve TMDL waste load and load allocation targets with prioritization of TMDLs with near-term deadlines for waterbodies in the Santa Monica Bay watershed.	----	LA County and watershed cities	LARWQCB	Facilitate and support	Not Initiated
6	1.1c. Facilitate and support TMDL implementation through progress and achievement recognition and information sharing on effective and successful implementation approaches and tools by 2018.	2018	SMBRC	LA County and watershed cities, LARWQCB	Lead	Not Initiated
7	1.1d. Facilitate research and assessment that inform more accurate waste load allocation and development of new water, sediment and biological objectives by 2018.	2018	SMBRC	LARWQCB, SWRCB	Lead	Not Initiated
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9	1.2a Complete development of the Malibu Creek nutrient and benthic TMDLs and the TMDL implementation plan with enhanced stakeholder participation by 2014.	2014	USEPA, LARWQCB	LVMWD, Malibu watershed cities, park agencies in the Santa Monica Mountains Area	Facilitate and provide technical assistance	Completed
10	1.2b Facilitate achievement of TMDL allocation targets through new nonpoint source control measures such as improved fertilizer management in the Malibu Creek watershed by 2020.	2020	LVMWD, Malibu watershed cities, park agencies in the Santa Monica Mountains Area	----	Promote	Ongoing
11	1.2c Conduct additional monitoring and studies to evaluate factors from both upper and lower watershed that affect algal growth and benthic macroinvertebrate impairments in Malibu Creek by 2015.	2015	LVMWD, Malibu watershed cities, park agencies in the Santa Monica Mountains Area	RWQCB, USEPA	Support	Completed
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13	1.3a Phase out the use of once-through cooling. Complete conversion of the existing facilities by the State-approved deadline for individual facilities no later than 2021.	No later than 2021	LARWQCB, Coastal power plant owners (City of LA DWP, NRG, etc.)	SWRCB, State Energy Commission, NMFS	Facilitate and support	Ongoing
14	1.3b Develop and adopt policies to address potential impacts of water intake and brine discharge from desalination facilities by 2014.	2014	SWRCB	LARWQCB, Water Districts	Support	Completed
15						
16	1.4a Evaluate the effectiveness of non-storm water discharge prohibition from municipal drains and the effect of conditional Exceptions. Update existing strategy and policy for eliminating harmful discharge to ASBS by 2018.	2018	SWRCB	LARWQCB, City of Malibu, LA County, State Parks, Caltrans	Support	Completed
17	1.4b. Eliminate all identified harmful discharges to ASBS in the Bay by 2018.	2018	SWRCB	LARWQCB, City of Malibu, LA County, State Parks, Caltrans	Support	Ongoing
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19	1.5a. Facilitate adoption of a reliable County-wide Clean Water and Clean Beach funding mechanism through a property assessment fee by 2014.	2014	LA County	Watershed cities	Facilitate and support	Completed

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20	# 1: Improve water quality through treatment or elimination of pollutant discharges regulated under the current federal and state regulatory framework	storm water quality improvement
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22		1.6. Reduce and prevent non-storm water runoff from urban land uses
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25		1.7. Eliminate nonpoint pollution from on-site wastewater disposal systems (OWDSs)
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28	# 2: Improve water quality through pollution prevention and source control	
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32		2.1. Increase pervious surfaces and storm water infiltration where feasible by supporting green infrastructure
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38		2.2. Reduce generation of trash through restricting and

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20	1.5b. Support Proposition 218 reform and implement other financing mechanisms to provide local governments with funds for storm water programs.	----	LA County	Watershed cities, MRCA	Participate, support	Ongoing
21						
22	1.6a. Promote good practice and measures through information exchange for reducing or preventing non-storm water runoff.	----	Watershed cities, LA County	Local water districts	Support	Ongoing
23	1.6b. Improve enforcement of local prohibitions and MS4 permit requirements on non-storm water runoff	----	Watershed cities, LA County	LARWQCB	Promote	Ongoing
24						
25	1.7a Implement the septic prohibition regulation for the Malibu Civic Center area and complete construction of the centralized wastewater treatment facility for civic center with advanced tertiary treatment and water recycling capability by 2019.	2019	City of Malibu	LARWQCB	Promote	Ongoing
26	1.7b. Achieve full compliance of waste discharge requirements (WDRs) issued by the LARWQCB for all multi-family and commercial establishments in northern Santa Monica Bay watershed by 2016.	2016	LARWQCB, City of Malibu, City of LA, LA County	----	Facilitate and promote	Ongoing
27	1.7c. Fully Implement a permitting program as laid out under the MOU between LARWQCB and local agencies for operation, inspection, and monitoring of OWTS by 2016.	2016	City of Malibu, City of LA, LA County	LARWQCB	Promote	Ongoing
28	1.7d. Facilitate implementation of the State on-site wastewater treatment policy with more stringent requirements in environmentally sensitive areas and near impaired water bodies by 2018.	2018	City of Malibu, City of LA, LA County, park management agencies	SWRCB, LARWQCB	Promote	Not Initiated
29						
30	# 2: Improve water quality through pollution prevention and source control32:36	2015	Watershed cities, LA County	LARWQCB	Promote	Ongoing
31	2.1b. Incorporate green infrastructure elements, e.g. biofiltration and rain gardens, into the standard street design and maintenance practices by 2015.	2015	LA County, watershed cities, State DPR, State Conservancies, park agencies.	----	Promote	Ongoing
32	2.1c. Establish municipal and/or state standards for use of green infrastructure Ensure new LID standards are incorporated into local development plans and building codes by 2016.	2016	LA County, Watershed cities	----	Promote	Ongoing
33	2.1d. Implement and fund more LID projects such as new rain barrel program and rain gardens. Install 2 acres of rain gardens in the Santa Monica Bay Watersheds by 2016.	2016	Watershed cities,	----	Lead and provide funding support.	Ongoing
34	2.1e. Expand the downspout disconnection and rain barrel projects throughout the watershed	----	Watershed citeis, LA County	----	Facilitate	Ongoing
35	2.1f. Develop by 2015 and implement LID master plans for public-owned open space properties in the Santa Monica Mountains.	2015	SMBRC	All park and open space management agencies	Lead and facilitate a working group for master plan development	Ongoing
36	2.1g. Collect data to map and track LID implementation. Conduct analysis to determine the cumulative benefits and effectiveness of LID implementation and evaluate suitability of LIDs for different settings and conditions.	----	SMBRC	LA County and watershed cities, LARWQCB	Lead	Ongoing
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38	2.2a. Support State-wide bans or establish fees on plastic and polystyrene fast-food containers and plastic bags at all retail stores by 2015.	2015	State Legislature	LA County, watershed cities	Promote	Ongoing

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39	# 2: Improve water quality through pollution prevention and source control	2.2. Reduce generation of ash through recycling and reducing the use of disposable plastics and polystyrene products
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42		2.3. Reduce aerial deposition of storm water pollutants to the Bay and the Bay watershed
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46		2.4. Reduce pollution from commercial and recreational boating activities
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51		2.5. Reduce discharge of trash, oil and grease, and other pollutants from commercial and other high density areas
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55		2.6. Sustain and expand annual Coastal Cleanup
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58		2.7. Increase public awareness through Public Involvement and Education (PIE) mini-grant program
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39	2.2b. Adopt bans or establish fees on plastic and polystyrene fast-food containers and plastic bags at all retail stores by all watershed cities by 2015	2015	Watershed cities	----	Promote	Ongoing
40	2.2c. Promote take back and packaging minimization programs.	----	CalEPA, LA County and watershed cities	Private business	Support	Ongoing
41						
42	2.3a. Conduct further studies to estimate airborne pollutant loading from area-specific sources (e.g. LAX).	----	SWRCB, CARB	----	Facilitate and support, assist in developing the needed studies.	Not Initiated
43	2.3b. Improve coordination and collaboration between SWRCB and CARB to address specific sources of airborne pollutant loading such as brake pad.	----	SWRCB, CARB	LARWQCB	Promote	Ongoing
44						
45	2.4a. Continue to support alternative boat sewage management strategies such as require mobile pumpout services as part of standard lease agreements, institute marina wide mobile pumpout program, install stationary pumpout facilities, etc.	----	LAC-DBH, City of Redondo Beach	Marina operators	Facilitate	Ongoing
46	2.4b. Increase amount of recycling and increase opportunities for recycling boat related household hazardous waste.	----	LAC-DBH, City of Redondo Beach	SMBRC	Participate through the boater program	Ongoing
47	2.4c. Increase number of monofilament fishing line recycling and installation of collection units throughout Santa Monica Bay.	----	LAC-DBH, harbor management	California Coastal Commission, Department of Boating and Waterways, Coastal Guards	Participate through the boater program	Ongoing
48	2.4d. Increase outreach and education opportunities regarding sustainable boating on inland lakes.	----	SMBRF	California Coastal Commission, Department of Boating and Waterways, lake management	Lead through the boater program	Not Initiated
49						
50	2.5a. Promote and expand the restaurant certification program, and achieve participation by all watershed cities by 2016	2016	SMBRC,	Watershed cities	Lead	Ongoing
51	2.5b: Install more catchbasin screening and infiltration devices at high trash generating areas by 2018.	2018	Watershed cities, LA County, park and beach agenices, Caltrans	----	Promote	Ongoing
52	2.5c. Install more energy-efficient, overflow-safe trash cans such as solar-powered trash and recycling compactors in selected high-trash areas of the watershed by 2018.	2018	Watershed cities, LA County, park agenices, Caltrans	----	Promote	Ongoing
53	2.5d. Reduce disposal of cigarette butt through insallation of more receptacles and educational message at all smoke-permitted outdoor areas	----	Watershed cities, LA County, park and beach agenices, Caltrans	----	Promote	Ongoing
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55	2.6a. Sustain the annual Coastal Cleanup Day in Santa Monica Bay and the coordination of Marina del Rey Cleanup event by SMBRC	----	SMBRC, Heal the Bay	----	Lead coordination of clean up in Marina del Rey	Ongoing
56	2.6b. Sustain inland cleanups as part of Coastal Cleanup Day efforts	----	Heal the Bay	----	Facilitate	Ongoing
57						
58	2.7a. Initiate a new round of PIE program at least every three years.	2023	SMBRC	LARWQCB, private businesses	Lead	Not Initiated
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60	# 3: Address Potential Impacts of Emerging Contaminants	3.1. Institutionalize monitoring of emerging contaminants
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62		3.2. Reduce loading of emerging contaminants in waterways
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60	3.1a. Compile an inventory of relevant research and continue carrying out studies to assess the potential biological effects of emerging contaminants (e.g. bioaccumulation in locally caught fish).	----	EPA, SWRCB	LARWQCB, LACSD, City of LA B. of Sanitation, SCCWRP	Facilitate	Ongoing
61	3.1b. Standardize analysis methods for emerging contaminants	----	EPA, SWRCB, State Dept. of Public Health	LARWQCB, LACSD, City of LA B. of Sanitation, Water Districts	Promote	Ongoing
62	3.1c. Add emerging contaminants to monitoring plans required under NPDES permits .	----	LARWQCB	LACSD, City of LA Bureau of Sanitation, storm water monitoring agencies	Promote	Completed
63						
64	3.2a. Enhance existing education programs to reduce household disposal of pharmaceutical products into the sewer system (e.g. no drugs down the drain), and promote an extended producer responsibility (e.g. pharmaceuticals take-back) program	----	LACSD, City of LA B. of San. Water Districts	Private business (pharmacies)	Promote	Ongoing
65	3.2b. Identify a list of emerging contaminants of concern. Enact state legislation to ban certain contaminants or replace with alternative products.	----	EPA, SWRCB, State Dept. of Public Health	LARWQCB, SCCWRP, LACSD, City of LA B. of San.	Promote	Ongoing
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1	SECTION II. NATURAL RESOURCES			
2	Goal	Objective	Milestone	Target Date
3	# 4: Create/ support policies and programs to protect natural resources	4.1. Facilitate development and adoption of natural stream protection ordinances and/or policies	4.1a. Adopt stream protection ordinances or policies by affected Santa Monica Bay watershed cities by 2016	2016
4			4.1b. Conduct education and outreach on the multiple benefits of natural streams in urban environments	----
5			4.1c. Adopt/update and implement a hydromodification policy through the renewed municipal stormwater permits by 2015.	2015
6		4.2. Enhance assessment and effective management of Marine Protected Areas in the Bay	4.2a. Promote an adaptive MPA management strategy. Develop and implement MPA Master Plan, management guidances, and enforcement plans by 2015.	2015
7			4.2b. Participate in the development of MPA community collaborative for the LA area by 2015.	2015
8			4.2c. Participate in MPA monitoring including long-term habitat surveys and future MPA assessment by 2017.	2017
9			4.2d. Conduct aerial surveys of fishing activities inside and outside of MPAs.	----
10		4.3. Evaluate and establish additional management measures to improve protection of fishery resources.	4.3a. Develop reliable streams of data to support effective fishery management. Conduct stock assessment for fish and invertebrate species with heavy fishing pressures (e.g. California halibut, rock fish spp. thornyheads, red sea urchin, market squid) by 2020.	2020
11			4.3b. Develop and conduct assessment on localized impacts of recreational fishing compared to commercial fishing, inside and outside the Santa Monica Bay commercial fishing closure (especially for spiny lobster, sandbass/kelp bass, CA halibut, rockfish) by 2018.	2018
12			4.3c. Develop and implement fishery management plans (FMPs) for high priority fisheries especially spiny lobster and California halibut. Identify additional fish stocks for FMP development by 2015.	2015
13			4.3d. Assess the habitat impacts of bycatch and trawl, set gillnet, and set longline gear (especially in thornyheads, white seabass, and California halibut fisheries) by 2020.	2020
14			4.3e. Implement studies to evaluate effectiveness of Santa Monica Bay commercial fishing closure by 2015.	2015
15			4.3f. Promote outreach to and involvement by fishermen regarding fishery management issues by 2015.	2015
16			4.3g. Increase presence and effectiveness of local wardens by 2015.	2015
17			4.3h. Develop and improve labeling requirements for seafood and implement program to attain compliance (esp. for rockfish).	----
18			4.3i. Improve and streamline scientific collection permitting process. Establish more stringent restriction on collection of native species such as Giant keyhole limpet that are exploited for non-fishery purposes (e.g. pharmaceutical and aquarium trade).	----
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2	Implementation Lead	Implementation Partners	Role of the SMBNEP	Completion Status
3	Watershed cities, LA County	Park agencies	Facilitate	Ongoing
4	SMBRC	Watershed cities, Water Districts	Lead	Ongoing
5	LARWQCB	SWRCB, LA County	Promote	Completed
6				
7	DFW	----	Facilitate	Ongoing
8	Natural Resources Agency	----	Participate and facilitate	Completed
9	MPA Monitoring Enterprise	Ocean Science Trust (OST), OPC (funding) DFW	Participate	Ongoing
10	SMBRC	DFW	Lead	Ongoing
11				
12	DFW, NMFS	OPC	Promote	Ongoing
13	DFW, NMFS	----	Promote	Not Initiated
14	DFW, FW Commission	PSMFC	Promote	Ongoing
15	SMBRC	DFW, FG Commission	Lead	Not Initiated
16	SMBRC	----	Lead	Not Initiated
17	SMBRC	DFW, FG Commission, Local fisherman groups	Lead	Ongoing
18	DFW	FG Commission	Facilitate	Ongoing
19	LA County Public Health Department, California Department of Public Health, FDA	USDA, private business	Promote	Not Initiated
20	DFW, CFGC	Aquariums, cities and counties with protected tidepools	Promote	Ongoing
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22	# 4: Create/ support policies and programs to protect natural resources	4.4. Promote and create programs to increase the supply of healthy local sustainable seafood	4.4a. Build markets for contaminant free, local, sustainable seafood products. Bring important local fisheries (e.g. market squid, sardine, spot prawn, sea urchin, thornyhead) up to "best choice" ratings.	----
23			4.4b. Assess contamination loads in locally caught and farmed seafood products.	----
24			4.4c. Evaluate and create programs to develop sustainable healthy aquaculture options for seafood while protecting local, sustainable, wild capture fisheries. Develop local policy on aquaculture practices, site selection, and species selection by 2020.	2020
25		4.5. Evaluate and address potential impacts of climate change on Santa Monica Bay	4.5a. Expand the pilot Climate Ready Estuary project and conduct additional vulnerability assessment.	----
26			4.5b. Participate in and facilitate regional collaboration such as LARC. Facilitate development of climate change adaptation plans. Facilitate coordination among coastal jurisdictions for integration of adaptation plans in the Bay coastal watershed .	----
27			4.5c. Promote adaptation strategies using environmental friendly "soft" solutions or other solutions with minimum negative environmental impacts. Promote establishment of buffer zones.	----
28		4.6. Facilitate and coordinate water quality improvement and habitat restoration programs in key subwatersheds	4.6a. Facilitate coordination of activities for Ballona Creek & Malibu Watersheds through IRWMP, TAC, and other stakeholders' planning and project development efforts.	2018
29			4.6b. Facilitate or conduct more research on assessment of habitat impacts and effects of various watershed attributes (Also see Milestone 1.1d, 1.2c).	----
30			4.6c. Promote or conduct more citizen monitoring and variety of public events to demonstrate benefits of water quality improvement, values of natural habitats, and watershed connectivity.	----
31		4.7. Implement a Comprehensive Bay Monitoring Program	4.7a: Participate in regional monitoring programs including Bight-wide regional surveys and regional wetland monitoring program development and implementation.	----
32			4.7b. Incorporate Bay comprehensive monitoring designs into monitoring requirements under NPDES permits.	----
33			4.7c. Establish a coordination structure, including a stable "funding pool" to ensure long-term implementation of the monitoring program.	----
34			4.7d. Update the Comprehensive Monitoring Program with monitoring designs for habitats in the Bay watershed. Facilitate development of habitat health condition indices, including the application of biological and sediment quality objectives.	----
35			4.7e. Facilitate and support research and special studies on remaining or emerging issues (e.g. impacts of fracking, ocean acidification)	----
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22	MB Seafood Watch	DFW, FW Commission, LB AoP, LA Food Policy Working Group, respective commercial fishing groups, Heal the Bay, LAW, USC Sea Grant	Facilitate	Ongoing
23	EPA	MSRP, LACSD, SCCWRP	Facilitate	Ongoing
24	DFW, NMFS, FW Commission	----	Facilitate	Ongoing
25				
26	Coastal cities, LA County, SPR	OPC, California Coastal Commission, California Coastal Conservancy	Facilitate	Completed
27	Coastal cities, LA County, SPR	OPC, California Coastal Commission, California Coastal Conservancy	Facilitate	Ongoing
28	Coastal cities, LA County, SPR	OPC, California Coastal Commission, California Coastal Conservancy	Facilitate	Ongoing
29				
30	SMBRC, RCDSMM, LA County	Dept of Conservation	Facilitate	Ongoing
31	LA County, watershed cities, LARWQCB, SCCWRP, local universities	----	Facilitate	Ongoing
32	SMBRC	LA County, watershed cities, RCDSMM, CBOs, environmental organizations	Lead and coordinate	Ongoing
33				
34	SMBRC	LARWQCB, EPA, SCCWRP, DFW, CSUCI	Lead	Ongoing
35	LARWQCB	EPA, NPDES permittees	Facilitate	Ongoing
36	SMBRC	LARWQCB, USEPA, SCCWRP, NPDES permittees, DFW	Lead	Not Initiated
37	SWRCB, USEPA	SCCWRP	Facilitate and participate	Ongoing
38	SMBRC	LARWQCB, USEPA, SCCWRP, NPDES permittees, DFW	Facilitate and support	Ongoing
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40	#5: Acquire land for preservation of habitat and ecological services	5.1. Acquire 2000 acres of priority open space in the Santa Monica Mountains	5.1a Acquire private parcels in the Santa Monica Mountains as they become available.	----
41				
42		5.2. Acquire priority parcels in urbanized areas of the watershed	5.2a. Compile information and prioritize parcels for acquisition	----
43			5.2b. Acquire priority parcels for preservation or habitat restoration	----
44				
45	#6: Manage Invasive Species	6.1. Achieve 303d listing for aquatic invasive species	6.1a. Compile and provide data to LARWQCB for their 303d listing review of existing invasive species and their impacts to beneficial uses	----
46				
47		6.2. Coordinate and fund public education and outreach on invasive species	6.2a Continue to support the research, education and outreach on the control of New Zealand mudsnails, including potential biocontrols currently being evaluated.	----
48			6.2b. Expand education and outreach to control of other invasive species	----
49				
50		6.3. Develop and adopt plan and policies for invasive species control and prevention	6.3a. Develop and adopt watershed-specific comprehensive plans for control and prevention of invasive species by 2016.	2016
51			6.3b. Encourage adoption of policies that prevent introduction and planting of invasive species in landscaping and other public work projects.	----
52			6.3c. Update and strengthen existing plan and policies for preventing marine invasive species	----
53	#6: Manage Invasive Species			
54		6.4. Prevent importation and sale of known invasive species	6.4a. Coordinate with DFW, California Department of Food and Agriculture, local agencies, and private businesses to prohibit the sale of known invasive species such as for crayfish, <i>arundo donax</i> , pampas grass, fountain grass, and ice plant.	----
55				
56		6.5. Fund and conduct invasive species removal programs and projects	6.5a. Conduct and complete riparian invasive species removal and native revegetation on 20 acres in the Santa Monica Mountains by 2020.	2020
57			6.5b. Conduct and complete invasive species removal and revegetation on 20 acres of coastal bluffs and dunes by 2020	2020
58			6.5c. Continue crayfish removal activities in Trancas and Malibu Creeks, and other infested areas.	----
59	# 7: Restore wetlands, streams and riparian zones			
60		7.1. Restore Ballona Wetlands	7.1a. Complete the EIR/EIS process for Ballona Wetlands Restoration by 2014.	2014
61			7.1b. Develop and implement a long-term monitoring program for Ballona Wetlands.	2015
62			7.1c. Secure funding source (approximately \$50 M, total project cost \$100–200 M) sufficient to complete first phase implementation of preferred alternative by 2016.	2016
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40	SMMC, State Coastal Conservancy	SCWRP	Participate and support	Ongoing
41				
42	SMBRC	MRCA, State Coastal Conservancy, CCI	Lead	Ongoing
43	MRCA, State Coastal Conservancy, City and County parks and recreation departments, other land conservancies	----	Facilitate	Ongoing
44				
45	SMBRC	LARWQCB	Lead	Completed
46				
47	SMBRC	State Parks, SMMC, NPS	Lead	Ongoing
48	State Parks, NPS	Coastal Conservancy, MRT, RCDSMM	Participate	Ongoing
49				
50	SCC, SWRCB, SMMC, DFW, CCC	Watershed cities, LA County	Facilitate	Ongoing
51	Watershed cities, LA County, DFW	METRO	Facilitate	Ongoing
52	DFW, NMFS	LARWQCB	Promote	Ongoing
53				
54	DFW, CDFA	Local agencies, NGOs, private business	Facilitate	Ongoing
55				
56	NPS, Coastal Conservancy, DPR	CalTrans, RCDSMM, MRT	Facilitate	Ongoing
57	State Coastal Conservancy, SCWRP, NMFS, PVPLC, LAC-DBH, LACC, LAX	Coastal cities, private businesses	Facilitate	Ongoing
58	SMBRC	Pepperdine, University, UCSB, MRT, RCDSMM	Lead	Ongoing
59				
60	DFW, State Coastal Conservancy	CSLC, Coastal Conservancy, ACOE, SMBRC, State Parks, NMFS	Participate	Ongoing
61	SMBRC, Coastal Conservancy	DFW	Co-Lead	Completed
62	Coastal Conservancy	State Parks, SCWRP, NMFS, Port of Los Angeles	Participate	Ongoing
63				

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64	# 7: Restore wetlands, streams and riparian zones	7.2. Restore Malibu Lagoon	7.2a. Conduct post-restoration monitoring & maintenance for Malibu Lagoon.	2016
65			7.2b. Acquire and restore additional lands surrounding the current Lagoon footprint and along the lower Malibu Creek.	----
66		7.3. Remove fish barriers and open 20 miles of stream habitat to migrating steelhead trout	7.3a. Remove priority barriers identified by the SMBRC, including barriers in Malibu Creek watershed (Rindge Dam, Century Dam, Cold Canyon, Las Virgenes Creek), Solstice Creek (PCH Bridge Replacement), Zuma (at grade road) by 2018.	2018
67				
68			7.3b. Complete ACOE feasibility study for Rindge Dam removal by 2014.	2014
69			7.3c. Complete removal of Arroyo Sequit barriers by 2014.	2014
70	# 7: Restore wetlands, streams and riparian zones	7.4. Restore urban streams, including daylighting culverted streams and removing cement channels	7.3d. Restore stream habitat in Topanga Narrows by 2016.	2016
71				
72			7.4a. Secure funding and implement priority projects identified in the Ballona Creek Greenway Plan by 2018.	2018
73			7.4b. Promote stream daylighting in Lafayette Park.	----
74			7.4c. Implement more stream restoration projects in the Malibu Creek watershed.	----
75			7.4d. Complete stream restoration in more areas and continue ongoing maintenance of restored Stone Canyon Creek at UCLA by 2018.	2018
76			7.4e. Identify stream restoration alternatives within Baldwin Hills and nearby areas draining the Conservancy project area.	----
77			7.4f. Protect/acquire remaining undeveloped lands, especially stream corridors, e.g. Hoag Canyon and remaining Corral Canyon properties	----
78		7.5 Restore Topanga Lagoon		
79			7.5a. Develop preferred restoration alternative for Topanga Lagoon by 2015.	2015
80			7.5b. Complete the EIR for re-aligning the PCH bridge over Topanga Lagoon by 2017.	2017
81		7.6. Restore Oxford Lagoon to provide native species habitat, improved water quality, improved flood storage, and greater public access	7.5c. Complete full Lagoon restoration by 2020.	2020
82				
83		7.7. Restore Del Rey Lagoon to improve water quality and increase wetlands habitat and public access.	7.6a. Complete implementation of the lagoon restoration plan by 2015.	2015
84				
85			7.7a. Acquire private parcels immediately adjacent to the lagoon by 2018.	2018
86			7.7b. Conduct a feasibility study, develop a restoration plan and complete CEQA process by 2020.	2020
87		7.8. Restore Topanga Lagoon	7.7c. Complete restoration by 2022.	2022
88				
89			7.8a. Complete feasibility analysis and land acquisition by 2015.	2015

	E	F	G	H
64	State Parks, SMBRC, RCDSMM	Coastal Conservancy, Audubon Society and other non-profit groups	Co-Lead	Ongoing
65	State Parks	N/A	Promote	Not Initiated
66				
67	SMBRC, Coastal Conservancy, State Parks, DBH, Caltrans	NMFS, DFW	Co-Lead	Ongoing
68	ACOE, SMBRC, SMMC, NMFS, Multiple Federal, State, local agencies, NGOs	State Parks, SMMC, NMFS	Participate	Completed
69	SMBRC, State Parks	NMFS, Caltrans, NGOs	Co-lead	Completed
70	State Parks, RCDSMM, CalTrans	----	Facilitate	Not Initiated
71				
72	SMBRC	MRCA, Baldwin Hills Conservancy, Culver City, City of LA	Lead	Not Initiated
73	SMBRC	City of LA, MRCA, Coastal Conservancy, private businesses	Lead	Not Initiated
74	Malibu Watershed Cities, SMMC, NPS, Coastal Conservancy	----	Facilitate	Not Initiated
75	SMBRC	UCLA	Lead	Ongoing
76	Baldwin Hills Conservancy	State Parks, LA County, City of LA	Participate	Ongoing
77	MRCA, Coastal Conservancy	----	Facilitate	Ongoing
78				
79	State Parks	----	Participate	Not Initiated
80	State Parks, Caltrans	N/A	Participate	Not Initiated
81	State Parks	Caltrans	Participate	Not Initiated
82				
83	County of LA	----	Participate	Completed
84				
85	City of LA	----	Participate	Not Initiated
86	City of LA	----	Participate	Not Initiated
87	City of LA	----	Participate	Not Initiated
88				
89	NPS	Landowner	Participate	Not Initiated

	A	B	C	D
90		7.8. Restore Trancas Lagoon.	7.8b. Develop a restoration plan and complete Trancas Lagoon restoration by 2020.	2020
91				
92	# 8: Restore coastal bluffs, dunes, and sandy beaches	8.1. Restore native coastal bluff and upland scrub habitats	8.1a. Complete restoration of four top priority sites (19.5 acres) identified in the Beach Bluff Restoration Master Plan by 2015.	2015
93			8.1b. Enhance and expand restoration of LAX / El Segundo Dunes.	----
94			8.1c. Complete more bluff restoration projects on PV peninsula.	----
95			8.1d. Restore the LMU Bluffs adjacent to the riparian corridor and connecting to the BWER by 2016.	2016
96			8.1e. Restore the Cabora Drive bluff system adjacent to the BWER by 2016.	2016
97				
98		8.2 Protect and manage sandy beach habitats	8.2a. Develop sandy beach restoration and management plans that encourage protection of natural resources and human recreational opportunities by 2016.	2016
99			8.2b. Develop best practices for beach management for sandy beach habitat conservation. Establish formal procedures/certification program for Beach Management Certification by 2018.	2018
100			8.2c. Establish and implement a program to monitor beach animals, plants, and physical conditions in cooperation with scientists and community members by 2016.	2016
101			8.2d. Develop and implement a public education program about the importance/benefits of natural, ungroomed beaches.	----
102			8.2e. Develop and implement beach habitat designation, conservation, and/or restoration projects by 2018.	2018
103				
104	# 9: Restore rocky intertidal and subtidal habitats	9.1. Restore and monitor sixty acres of kelp forest	9.1a. Implement the MSRP kelp restoration program and restore 60 acres of kelp habitat by 2018	2018
105			9.1b. Develop and implement plan for reusing natural materials from Rindge Dam removal for reef restoration, if deemed feasible, by 2018.	2018
106				
107		9.2. Protect and manage rocky intertidal habitat	9.2a. Conduct a pilot project to test three different methods of intertidal protection by 2015.	2015
108			9.2b. Propose adoption of optimal management measures by responsible agencies by 2015.	2015
109			9.2c. Promote public and school education and adoption of measures for protecting sensitive habitats during tidepool fieldtrips.	----
110				
111		9.3. Re-introduce and restore an abalone population	9.3a Complete a pilot project to re-introduce abalone to local native habitat by 2015.	2015
112				
113		9.4. Assess and protect seagrass habitats	9.4a. Conduct an assessment on the status of historical and existing seagrass habitats and develop management and funding recommendations by 2015.	2015
114			9.4b. Assess, protect and restore offshore eel grass habitat in the North Bay by 2020.	2020
115				

	E	F	G	H
90	NPS, SMMRCD	----	Participate	Not Initiated
91				
92	South Bay cities, LAC-DBH	Coastal Conservancy, DFG, NOAA	Participate	Not Initiated
93	LAX	Chevron	Support	Ongoing
94	PVPLC, PVP cities	NOAA	Participate	Not Initiated
95	LMU, SMBRC	----	Co-Lead	Not Initiated
96	SMBRC	----	Co-Lead	Not Initiated
97				
98	LAC-DBH, DPR, coastal cities and private businesses with beach management responsibilities	DFW, CCC, NOAA	Facilitate	Ongoing
99	LAC-DBH, coastal cities and private businesses with beach management responsibilities	DFW, CCC, NOAA	Facilitate	Ongoing
100	SMBRC, University researchers (Pepperdine, UC Santa Barbara)	LAC-DBH, DPR, DFW, NOAA, CCC, Surfrider Foundation	Co-lead	Ongoing
101	SMBRC, University researchers (Pepperdine, UC Santa Barbara)	DPR, DFW, NOAA, CCC, Surfrider Foundation, Heal the Bay	Co-lead	Ongoing
102	LAC-DBH, DPR	DFW, NOAA	Participate	Completed
103				
104	SMBRC, MSRP	DFW	Co-Lead	Ongoing
105	SMBRC, ACOE	DFW, CCC	Co-Lead	Ongoing
106				
107	Coastal Conservancy, State Parks	LAC-DBH	Participate	Ongoing
108	Coastal Conservancy, State Parks	LAC-DBH	Participate	Not Initiated
109	Coastal Conservancy, State Parks	LAC-DBH	Promote	Ongoing
110				
111	SeaLab	DFW, NOAA, City of Ranchos Palso Verdes	Participate	Ongoing
112				
113	NOAA/NMFS	DFW	Participate	Ongoing
114	NOAA, NMFS	VRG, SCMI, DFW	Participate	Ongoing
115				

	A	B	C	D
116	# 10: Protect and restore open ocean and deep water habitats	10.1. Update and expand knowledge of unique habitats within Santa Monica Bay.	10.1a. Update information of deep canyon and deep reef habitats including Short Bank from previous assessment and conduct new reconnaissance study if necessary by 2016.	2016
117			10.1b. Assess Torrance Beach and other shallow nearshore habitats and develop protection measures if necessary.	----
118				
119		10.2. Assess harmful algal bloom and its causes and impacts on Bay's ecosystem	10.2a. Conduct and coordinate research on status, causes and impacts of harmful algal blooms, including hypoxia in deeper water in Santa Monica Bay.	----
120			10.2b. Maintain and enhance the coordinated HAB alert network.	----
121				

	E	F	G	H
116	LACSD, SMBRC, SCCWRP	N/A	Co-lead	Not Initiated
117	SMBRC	LACSD, City of LA Bureau of Sanitation, DFW	Lead	Not Initiated
118				
119	SCCWRP, SCOOS, Regional Universities	----	Promote	Ongoing
120	State OPC	SCCWRP, SCOOS, Regional Universities	Promote	Ongoing
121				

	A	B	C	D	E
1	SECTION III. BENEFITS AND VALUES TO HUMANS				
2	Goal	Objective	Milestone	Target Date	Implementation Lead
3	# 11: Protect public health	11.1. Achieve minimum beach closures and postings at Santa Monica Bay beaches	11.1a. Evaluate the need for and implement additional dry weather (summer and winter dry periods) diversions for achieving compliance with Santa Monica Bay dry-weather bacterial TMDL by 2015.	2015	SWRCB (CBI)
4			11.1b. Enhance collaboration among local agencies through the Enhanced Watershed Management Plan groups in SMB. Develop and implement an integrated approach to reduce wet-weather pathogen contamination.	----	LA County, watershed cities, park agencies, Caltrans.
5		11.2. Develop and adopt new pathogen indicators and source identification tools	11.2a Conduct more research on new rapid and pathogen-specific indicators.	----	SWRCB (CBI), USEPA
6			11.2b. Incorporate new effective indicators into water quality objectives and monitoring programs by 2018.	2018	SWRCB, State Health, USEPA, LARWQCB
7		11.3. Update seafood consumption advisories and risk communication messages	11.3a. Expand the area locaton and species of fish and invertebrate contamination survey, and develop and issue new consumption advisory if necessary	----	OEHHA, USEPA
8			11.3b Update fish advisory signage and develop and distribute new educational materials if necessary.	----	OEHHA, USEPA
9		11.4 Maintain and enhance institutional control measures (enforcement, monitoring, and education) through coordination with partner agencies to reduce the risk of consumption of contaminated fish in high risk ethnic communities	11.4a. Reestablish catch-ban area to correspond with commercial catch-blocks in order to increase understanding of regulations and enforce adherence to regulations by 2015.	2015	DFW, USEPA
10			11.4b. Utilize community organizations and health professionals to educate at-risk families by 2018.	2018	LA County Health Dept., USEPA
11			11.4c. Enhance the health inspectors' market inspection program to reduce and prevent contaminated white croaker from being sold on markets by 2018.	2018	LA County Dept. of Public Health
12			11.4d. Continue to reach out to recreational anglers with FCEC messaging and increase angler awareness of local fish advisory by 2018.	2018	USEPA
13			11.4e. Increase enforcement of existing bag limit for white croaker by 2018.	2018	DFW
14		11.5. Remediate contaminated sediments	11.5a. Evaluate, update, and revise the remediation strategy for contaminated sediments on Palos Verdes shelf based on new monitoring data by 2015.	2015	USEPA (Superfund)
15			11.5b. Finalize and implement a remediation plan by 2016.	2016	USEPA (Superfund)
16		12.1. Acquire and restore priority parcels to increase acreage of ecologically functioning floodplains and wetlands	12.1a. Develop a prioritized property list and acquire priority parcels for floodplain and wetland restoration in coordination with milestones under Objective 5.1 and 5.2.	----	MRCA, State Coastal Conservancy
17			12.2a. Work with LA County FCD to develop sediment transport strategy and mechanims that optimize habitat, water quality and flood control purposes by 2015.	2015	LA County, SMBRC
18		12.2. Develop and implement a comprehensive regional sediment management plan for restoring natural hydrological functions of			
19					
20					
21	# 12: Maintain/increase natural flood protection through ecologically functioning floodplains and wetlands				
22					
23					

	F	G	H
1			
2	Implementation Partners	Role of the SMBNEP	Completion Status
3	LA County, beach cities	Participate	Ongoing
4	LARWQCB	Participate	Ongoing
5			
6	SCCWRP	Promote	Ongoing
7	----	Support	Ongoing
8			
9	State Public Health	Promote	Not Initiated
10	State Public Health, LA County Health, other FCEC partners	Participate	Ongoing
11			
12	----	Promote	Not Initiated
13	----	Promote	Ongoing
14	----	Promote	Ongoing
15	Heal the Bay, Cabrillo Aquarium	Promote	Ongoing
16	USEPA	Promote	Ongoing
17			
18	----	Promote	Ongoing
19	----	Promote	Ongoing
20			
21	----	Promote	Ongoing
22			
23	ACOE	Co-lead	Ongoing

	A	B	C	D	E
24		river systems.	12.2b. Fund and implement pilot projects to test of transport sediment down stream with natural storm flows.	2018	LA County, SMBRC
25					
26	# 13: Increase public access to beaches and open space	13.1. Increase public access to Santa Monica Mountains through purchase and enhancement of open space	13.1a. Acquire available private parcels and easements (including those specified under Objective #5.1) and open them to the public to increase access and recreational opportunities by 2018.	2018	SMMC, Coastal Commission
27					
28		13.2. Increase acreage and access to parks and open space in urbanized areas through acquisition and conversion of private parcels	13.2a. Acquire and convert 30 acres of parks/open space in urban areas, focused on the needs of underserved communities, by 2020	2020	MRCA, watershed cities
29			13.2b. Acquire parcel adjacent to Lafayette Park for public ownership to convert to pervious surfaces and increase recreational opportunities	2018	City of LA, SMBRC
30			13.2c. Acquire parcel at north end of Del Rey Lagoon for City of LA ownership as identified under Objective 7.9 to improve connectivity to Ballona Creek estuary by 2018.	2018	City of LA
31					
32		13.3. Increase public access points to Ballona Creek and wetlands	13.3a. Open additional public access points to Ballona Wetlands including the Fiji Gateway by 2014.	2014	MRCA, DFG, Coastal Conservancy
33			13.3b. Implement selected Ballona Creek Greenway Plan projects (including those specified under Objective #7.4) to increase recreational opportunity and connectivity along Ballona Creek.	----	MRCA, Baldwin Hills Conservancy, Culver City, City of LA
34					
35		13.4. Increase public access to Santa Monica Bay beaches	13.4a. Improve dissemination of information on public beach access.	----	Coastal Commission
36			13.4b. Complete Santa Monica Bay section of the California Coastal Trail by 2020.	2020	Coastal Commission
37			13.4c. Open more Offer to Dedicate (OTD) public access easement along Santa Monica Bay that are currently closed to the public.	----	Coastal Commission
38			13.4d. Support beach replenishment that both increase beach use opportunity and protect beach ecology.	----	Coastal cities, LAC-DBH, ACOE, Coastal Commission
39			13.4e. Support land acquisition for providing more beach access.	----	Coastal Commission
40					
41		14.1. Increase local water supplies	14.1a. Capture, treat, and reuse dry weather and storm water runoff in consistent with the numeric targets set by the regional IRWMP	----	Watershed cities, local water districts
42			14.1b. Treat and reuse contaminated ground water consistent with the numeric target set by the regional IRWMP.	----	Watershed cities, LA County, local municipal water districts.
43			14.1c. Develop standards for rain water use. Develop and implement financial incentives for storm water recharge projects that produce new water and offset reliance on imported potable water supply.	----	Watershed cities, LA County

	F	G	H
24	ACOE	Co-lead	Not Initiated
25			
26	Coastal Conservancy, State Dept. of Parks and Recreation, NPS	Participate	Ongoing
27			
28	Coastal Conservancy	Participate	Ongoing
29	City of LA, MRCA, Coastal Conservancy	Co-lead and fund in collaboration with partners	Not Initiated
30	----	Facilitate	Not Initiated
31			
32	Ballona Wetlands Restoration Working Group	Facilitate	Ongoing
33	SCC	Facilitate	Ongoing
34			
35	Coastal Conservancy, State Lands Commission, State Dept. of Parks and Recreation	Participate	Ongoing
36	Coastal Conservancy, State Lands Commission, State Dept. of Parks and Recreation	Promote	Ongoing
37	Coastal Conservancy, State Lands Commission, State Dept. of Parks and Recreation	Promote	Ongoing
38	----	Promote	Ongoing
39	Coastal Conservancy, State Lands Commission, State Dept. of Parks and Recreation	Promote	Ongoing
40			
41	LARWQCB	Facilitate	Ongoing
42	LARWQCB	Promote	Ongoing
43	LARWQCB	Promote and participate	Ongoing

	A	B	C	D	E
44	# 14: Conserve water and increase local water supply				
45		14.2. Enhance water conservation	14.2a. Reduce water demand by enhancing existing water conservation measures/programs	----	Regional and local water districts, watershed cities, LA County
46			14.2b. Develop and adopt new requirements for planting of native, drought-tolerant vegetations in landscaping on public properties.	----	Regional and local water districts, watershed cities, LA County
47			14.2c Provide financial incentives for water conservation	----	Regional and local water districts, watershed cities, LA County
48					
49		14.3 Further increase wastewater recycling and reuse	14.3a. Recycle sufficient wastewater to replace current imported water supplies in the area served by JWPCP of the LACSD (230,000 acre-feet per year) by 2020.	2020	LACSD (JWPCP), West Basin Municipal Water District
50			14.3b. Increase use of recycled water recharge volume from the Hyperion Treatment Plant, including the City of LA's planned delivery of 14,300 ac-ft/year in stages, in addition to the potential to supply WBMWD with up to 67,000 ac-ft/year by 2020.	2020	LADWP, City of LA B. of Sanitation, West Basin Municipal Water District, LVMWD
51			14.3c: Increase the use of recycled water from the Tapia Water Reclamation Facility through expansion of the distribution and transmission system, regional partnerships for the sale of recycled water, and construction of a seasonal storage facility for recycled water by 2030.	----	LVMWD
52			14.3d: Support investigation and study of opportunities for direct and indirect potable reuse by 2020.	----	Regional and local water districts

	F	G	H
44			
45	----	Promote	Ongoing
46	----	Participate	Ongoing
47	----	Promote	Ongoing
48			
49	----	Support	Ongoing
50	MWD, SWRCB	Support	Ongoing
51	LADWP	Support	Ongoing
52	CADPH, SWRCB, LARWQCB	Support	Ongoing